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BEFORE THE

Federal Communications Commission

WASHINGTON, D.C.

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AUG 30 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

In re Applications of

DOUBLE W, INC.

DON TIMMERMAN BROADCASTING, INC.

For Construction Permit for a  
New FM Station on Channel 253  
in Cedar Falls, Iowa

) MM Docket NO. 93-216

) File No. BPH-920506MD

) File No. BPH-920507MA

To: The Honorable Joseph Stirmer  
Chief Administrative Law Judge

PETITION FOR LEAVE TO AMEND

Double W, Inc. ("Double W"), by its attorneys, hereby petitions for leave to amend its application to reflect its merger with Don Timmerman Broadcasting, Inc. ("Timmerman") and the formation of a new entity Thin Air Investments, Inc. ("Thin Air") which is the proposed permittee.

Attached hereto is a revised legal section of the FCC Form 301 substituting Thin Air for Double W. Also attached is a revised Integration proposal and a modified engineering proposal.

Acceptance of the attachment amendment will permit the parties to settle this proceeding as proposed in the Joint Motion for Approval of Settlement Agreement. Accordingly, a grant of

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this petition and acceptance of the amendment will serve the public interest.

Respectfully submitted,

DOUBLE W, INC.

Fisher, Wayland, Cooper  
and Leader  
1255 23rd Street, N.W.  
Suite 800  
Washington, D.C. 20037  
(202) 659-3494

By:   
Clifford M. Harrington  
Kathryn R. Schmeltzer

Its Attorneys

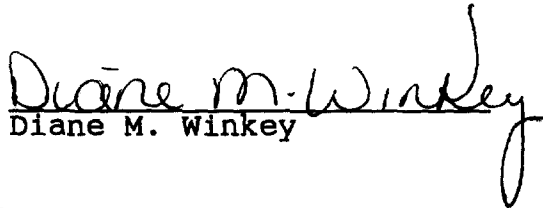
CERTIFICATE OF AMENDMENT

I, Diane M. Winkey, President of Double W, Inc. ("Double W"), applicant for a new FM station on Channel 253C3 at Cedar Falls, Iowa, hereby amend Double W's application to reflect the following:

1. Double W is merging with Don Timmerman Broadcasting, Inc. to create a new company, Thin Air Investments, Inc. The officer, directors and shareholders of Thin Air Investments, Inc. are listed on the attached pages amending Section II of Double W's FCC Form 301 application.

2. Double W is amending Section IV-B of its application, the Integration Statement, to reflect the proposals of Thin Air's principals.

3. Double W is amending the engineering portion of its FCC Form 301 application to include the attached material.

  
Diane M. Winkey

Dated: *August 24, 1993*

Section II - LEGAL QUALIFICATIONS

Name of Applicant

Thin Air Investments, Inc.

1. Applicant is: (check one box below)

☐ Individual

☐ General partnership

☒ For-profit corporation

☐ Other

☐ Limited partnership

☐ Not-for-profit corporation

2. If the applicant is an unincorporated association or a legal entity other than an individual, partnership, or corporation, describe in an Exhibit the nature of the application. N/A

Exhibit No.

NOTE: The terms "applicant," "parties to this application," and "non-party equity owners in the applicant" are defined in the instructions for Section II of this form. Complete information as to each "party to this application" and each "non-party equity owner in the applicant" is required. If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.

3. If the applicant is not an individual, provide the date and place of filing of the applicant's enabling charter (e.g., a limited partnership must identify its certificate of limited partnership and a corporation must identify its articles of incorporation by date and place of filing):

Date August 12, 1993

Place Des Moines, Iowa

In the event there is no requirement that the enabling charter be filed with the state, the applicant shall include the enabling charter in the applicant's public inspection file. If, in the case of a partnership, the enabling charter does not include the partnership agreement itself, the applicant shall include a copy of the agreement in the applicant's public inspection file.

4. Are there any documents, instruments, contracts or understandings (written or oral), other than instruments identified in response to Question 3 above, relating to future ownership interests in the applicant, including but not limited to, insulated limited partnership shares, nonvoting stock interests, beneficial stock ownership interests, options, rights of first refusal, or debentures? All documents have been disclosed.

☐ Yes ☐ No

If Yes, submit as an Exhibit all such written documents, instruments, contracts, or understandings, and provide the particulars of any oral agreement.

Exhibit No.

5. Complete, if applicable, the following certifications:

N/A

(a) Applicant certifies that no limited partner will be involved in any material respect in the management or operation of the proposed station.

☐ Yes ☐ No

If No, applicant must complete Question 6 below with respect to all limited partners actively involved in the media activities of the partnership.

(b) Does any investment company (as defined in 15 U.S.C. Section 80 a-3), insurance company, or trust department of any bank have an aggregated holding of greater than 5% but less than 10% of the outstanding votes of the applicant?

☐ Yes ☐ No

If Yes, applicant certifies that the entity holding such interest exercises no influence or control over the applicant, directly or indirectly, and has no representatives among the officers and directors of the applicant.

☐ Yes ☐ No

**Section II - LEGAL QUALIFICATIONS (Page 2)**

6. List the applicant, parties to the application and non-party equity owners in the applicant. Use one column for each individual or entity. Attach additional pages if necessary.

*(Read carefully - The numbered items below refer to line numbers in the following table.)*

- a. Name and residence of the applicant and, if applicable, its officers, directors, stockholders, or partners (if other than individual also show name, address and citizenship of natural person authorized to vote the stock). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and partners.
- b. Citizenship.
- c. Office or directorship held.
- d. Number of shares or nature of partnership interests.
- e. Number of votes.
- f. Percentage of votes.

NOTE: Radio Applicants ONLY: Radio applicants need not respond to subparts g and h of the table. Instead, proceed and respond to Questions 7, 8 and 9, Section II below.

- g. Other existing attributable interests in any broadcast station, including the nature and size of such interests.
- h. All other ownership interests of 5% or more (whether or not attributable), as well as any corporate officership or directorship, in broadcast, cable, or newspaper entities in the same market or with overlapping signals in the same broadcast service, as described in 47 C.F.R. Section 73.3555 and 76.501, including the nature and size of such interests and the positions held.

a.			
b.			
c.			
d.			
e.			
f.			
g.			
h.			

Section II - LEGAL QUALIFICATIONS (Page 2)

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h. All other ownership interests of 5% or more (whether or not attributable), as well as any corporate officership or directorship, in broadcast, cable, or newspaper entities in the same market or with overlapping signals in the same broadcast service, as described in 47 C.F.R. Section 73.3555 and 76.501, including the nature and size of such interests and the positions held.

a.	Thin Air Investments, Inc. 2645 Princeton Road Iowa City, Iowa 52245	Diane M. Winkey 2645 Princeton Road Iowa City, Iowa 52245	Junean E. Witham 2009 West 1st Street Cedar Falls, Iowa 50613
b.	Iowa Corp.	U.S. Citizen	U.S. Citizen
c.	N/A	President/Director	Vice President/Director
d.	1000,000 authorized 1,000 issued	160	160
e.	1,000	160	160
f.	100%	16%	16%
g.	None	None	None
h.	None	None	None

# Section II - LEGAL QUALIFICATIONS (Page 2)

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c. Office or directorship held.

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e. Number of votes.

f. Percentage of votes.

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h. All other ownership interests of 5% or more (whether or not attributable), as well as any corporate officership or directorship, in broadcast, cable, or newspaper entities in the same market or with overlapping signals in the same broadcast service, as described in 47 C.F.R. Section 73.3555 and 76.501, including the nature and size of such interests and the positions held.

a.	Donald E. Timmerman 550 Prestien Drive Denver, Iowa 50622	Steven A. Winkey 2645 Princeton Road Iowa City, Iowa 52245	Richard J. Witham 2009 W. First Street Cedar Falls, Iowa 50613
b.	U.S. Citizen	U.S. Citizen	U.S. Citizen
c.	Vice President/Director	Treasurer/Director	Secretary/Director
d.	180	160	160
e.	180	160	160
f.	18%	16%	16%
g.	None	None	None
h.	None	None	None

Section II - LEGAL QUALIFICATIONS (Page 2)

6. List the applicant, parties to the application and non-party equity owners in the applicant. Use one column for each individual or entity. Attach additional pages if necessary.

(Read carefully - The numbered items below refer to line numbers in the following table.)

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b. Citizenship.

c. Office or directorship held.

d. Number of shares or nature of partnership interests.

e. Number of votes.

f. Percentage of votes.

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a.	A. Miller Roskamp 307 N. Highland Drive Cedar Falls, Iowa 50613		
b.	U.S. Citizen		
c.	Director		
d.	180		
e.	180		
f.	18%		
g.	None		
h.	None		



**SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM**

1. Does the applicant propose to employ five or more full-time employees? See Double W Application ☒ Yes ☐ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 896-A).

**SECTION VII - CERTIFICATIONS**

N/A

1. Has or will the applicant comply with the public notice requirement of 47 C.F.R. Section 73.3580? ☐ Yes ☐ No
2. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose? ☐ Yes ☐ No

Exhibit No.

If No, attach as an Exhibit, a full explanation.

3. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Name of Person Contacted Ron Brainard

Telephone No. (include area code) (319) 234-3511

Person contacted: (check one box below)

☒ Owner ☐ Owner's Agent ☐ Other (specify)

4. By checking Yes, the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b). ☐ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

### Integration Statement

Diane M. Winkey, President, Director and 16% shareholder of Thin Air Investments, Inc. ("Thin Air") will be full-time General Manager of Thin Air's station.

Donald Timmerman, Junean Witham and Steven Winkey propose to work at the Cedar Falls station on a part-time basis in positions to be determined.

**TECHNICAL STATEMENT  
CONCERNING THE APPLICATION  
OF THIN AIR INVESTMENTS, INC.  
FOR AUTHORITY TO CONSTRUCT  
A NEW FM STATION AT  
CEDAR FALLS, IOWA**

Ch. 253C3      25 kW (H&V)      100 M

August 23, 1993

## TABLE OF CONTENTS

### TECHNICAL STATEMENT CONCERNING THE APPLICATION OF THIN AIR INVESTMENTS, INC. FOR AUTHORITY TO CONSTRUCT A NEW FM STATION AT CEDAR FALLS, IOWA

<u>Ch. 253C3 (98.5 MHz)</u>	<u>25 kW (H &amp; V)</u>	<u>100 Meters</u>
1. Technical Statement		
2. FCC Form 301	- Section V-B	
3. Table 1	- Separation Study	
4. Exhibit 1	- Sketch of Antenna	
5. Exhibit 2	- Map of Site	
6. Exhibit 3	- Predicted Coverage Contours	

TECHNICAL STATEMENT  
CONCERNING THE APPLICATION  
OF THIN AIR INVESTMENTS, INC.  
FOR AUTHORITY TO CONSTRUCT  
A NEW FM STATION AT  
CEDAR FALLS, IOWA

Ch. 253C3 (98.5 MHz)      25 kW (H & V)      100 Meters

This Technical Statement supports the application of Thin Air Investments, Inc., for authority to construct a new FM broadcast station at Cedar Falls, IA.

The proposed station will operate on Channel 253C3 (98.5 MHz) with an effective radiated power (ERP) of 25 kW at 100 meters above the average elevation of the surrounding terrain.

In this Application for New Station, it is proposed to locate the antenna at the following geographic coordinates:

North Latitude: 42-26-45  
West Longitude: 92-22-29

It is proposed to side-mount a 6-bay non-directional antenna at the 83 meter level of the 133-meter tower. The ground elevation at this site is 293 meters above mean sea level (AMSL). The center of radiation for the proposed antenna will be 83 meters above ground level (AGL) and 376 meters AMSL. The average elevation of the surrounding terrain within 3.2 to 16.1 kilometers of the proposed site is 276 meters based on N.G.D.C. 30-second linearly interpolated database. The antenna radiation center will be 100 meters above the average elevation of the surrounding terrain.

Table 1 is an allocation study for the proposed station. The table shows the pertinent nearby FM assignments, the distances from the proposed site to these stations, and the required separation. At the top of the table is a graphic display of the associated stations. As this table shows, the proposed transmitter location meets all the required minimum separations for a new Class C3 FM station on Channel 253 (98.5 MHz).

Exhibit 1 is a non-scale vertical sketch of the tower and antenna with pertinent height and elevation data indicated.

Exhibit 2 is a section of a 7.5 minute series U.S.G.S. topographic map with the proposed transmitter site indicated. There are no other TV, FM or non-broadcast stations within 60 meters of the proposed site. The 115 dBu blanketing contour for the proposed operation of 25 kW at 100 meters H.A.A.T extends 2.0 KM from the site. The area within this distance

is sparsely populated. The applicant recognizes its responsibility to remedy complaints of blanketing interference as required by Section 73.318 of the FCC Rules. There are no known AM stations within 5 KM of the site. There are two FM stations within 10 KM of the proposed site. KHKE FM operates on FM Channel 208 (89.5 MHz) with 10 KW ERP and antenna height of 125 meters, at a location from the proposed site of 6.8 KM at 139-T. KBBG FM operates on Channel 201 (88.1 MHz) with 9.5 KW ERP and antenna height of 26 meters, at a location 8.1 KM at 29-T. Although no adverse electromagnetic interference is expected, the applicant recognizes its responsibility to correct problems that result from its proposed operation.

Exhibit 3 is a map depicting the predicted 3.16 mV/m (70 dBu) principal city contour, and the predicted 1.0 mV/m (60 dBu) service contour. The Iowa Base map uses 1:500,000 scale, and includes proposed site, the eight cardinal radials, city radial, and Cedar Falls corporate limits highlighted. The predicted 3.16 mV/m (70 dBu) contour completely encompasses Cedar Falls, IA. The extent of the contours was calculated in accordance with Section 73.313(c) of the Commission's Rules.

The estimated population and land area within the predicted 1.0 mV/m contour is 175,429 persons and 4618 square kilometers respectively. The population is based on 1990 U.S. Census of Population. The land area was determined by numerical integration.

The proposed FM facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation." The existing tower is surrounded by a security fence. The calculated power density at ground level at the tower base was calculated using the "worst-case" OST calculations. Assuming 25 KW in both vertical and horizontal components, distance of 81 meters (vertical angle of -90 degrees) a "worst case" vertical relative field value of 1, the calculated power density at the base is 254.6 microwatts per square centimeter, or 25.5% of the Commission's recommended limit of 1.0 milliwatts per square centimeter for FM frequencies.

Since this is a shared site with Sprint Cellular, the individual and combined power density was calculated.

Sprint Cellular transmits on 29 frequencies near 900 MHz., with an effective radiated power of 0.1 KW per cell from an antenna 116 meters AGL. Using a worst-case calculation, based on all 29 cells transmitting a combined ERP of 2.9 KW, and assuming a distance at the tower base of 114 meters, the power density at the base is 4.622 microwatts, or 0.156% of the the ANSI recommended maximum of 2.956.6 milliwatts per

square centimeter.


The combined result of the two worst-case fractions equals 25.656 percent of the maximum.

Therefore, at the tower base, the potential for radiofrequency radiation exposure will be well within FCC guidelines.

Access to the existing transmitting site is restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

In addition, it appears that the existing tower is otherwise excluded from environmental processing as it complies with all the criteria for such an exclusion in Section 1.1306.

If there are any questions concerning this Technical Statement, please contact the office of the undersigned.



-----  
George Nicholas  
Broadcast Consultant  
3010 Falcon Ct NE  
Cedar Rapids, IA 52402  
(319) 365-9431

August 23, 1993

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY	
	File No.	_____
	ASB Referral Date	_____
	Referred by	_____

Name of Applicant

Thin Air Investments, Inc.

Call letters (if issued)

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: \_\_\_\_\_

Purpose of Application: (check appropriate box(es))

- |  |   |
|--|---|
| <input type="checkbox"/> Construct a new (main) facility                       | <input type="checkbox"/> Construct a new auxiliary facility                         |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input type="checkbox"/> Modify licensed main facility                         | <input type="checkbox"/> Modify licensed auxiliary facility                         |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- |   |   |
|---|---|
| <input type="checkbox"/> Antenna supporting-structure height  | <input type="checkbox"/> Effective radiated power             |
| <input type="checkbox"/> Antenna height above average terrain | <input type="checkbox"/> Frequency                            |
| <input type="checkbox"/> Antenna location                     | <input type="checkbox"/> Class                                |
| <input type="checkbox"/> Main Studio location                 | <input checked="" type="checkbox"/> Other (Summarize briefly) |

Amendment to pending application

File Number(s) \_\_\_\_\_

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
253	Cedar Falls	Black Hawk	IA

Class (check only one box below)

- |                             |                             |                            |  |
|-----------------------------|-----------------------------|----------------------------|--|
| <input type="checkbox"/> A  | <input type="checkbox"/> B1 | <input type="checkbox"/> B | <input checked="" type="checkbox"/> C3 |
| <input type="checkbox"/> C2 | <input type="checkbox"/> C1 | <input type="checkbox"/> C |  |

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

4719 Ansborough Avenue, Waterloo, IA

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	42°	26'	45"	Longitude	92°	22'	29"
----------	-----	-----	-----	-----------	-----	-----	-----

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☐ Yes ☒ No

If Yes, give call letter(s) or file number(s) or both.

d/n/a

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

d/n/a



SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?  
If Yes, list old coordinates.

☐ Yes ☐ No

Latitude	Longitude
----------	-----------

5. Has the FAA been notified of the proposed construction?

☐ Yes ☒ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. does not apply - existing structure

Exhibit No.

Date \_\_\_\_\_ Office where filed \_\_\_\_\_

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

Landing Area	Distance (km)	Bearing (degrees True)
(a) CMC (HP)	3.10	45.5°
(b) Hawkeye (AP)	4.06	108.2°

7. (a) Elevation: (to the nearest meter)

(1) of site above mean sea level:

293 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and

133 meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]

426 meters

- (b) Height of radiation center: (to the nearest meter) H = Horizontal; V = Vertical

(1) above ground

83 meters (H)

83 meters (V)

(2) above mean sea level [(aX1) + (bX1)]

376 meters (H)

376 meters (V)

(3) above average terrain

100 meters (H)

100 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers as well as location of FM radiator.

Exhibit No.  
1

9. Effective Radiated Power:

(a) ERP in the horizontal plane

25 kw (H=) 25 kw (V=)

(b) Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.

kw (H=) kw (V=)

=Polarization

d/n/a

SECTION V-8 - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

☒ Yes ☐ No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 316 mV/m service.

Exhibit No.

12. Will the main studio be within the protected 316 mV/m field strength contour of this proposal?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

☒ Yes ☐ No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.216 apply? d/n/a

☐ Yes ☐ No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers. d/n/a

Exhibit No.

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose. d/n/a

Exhibit No.

(e) If authorization pursuant to 47 C.F.R. Section 73.216 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following: d/n/a

Exhibit No.

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent areas of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibit(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? (see Technical Statement)

☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(a) and 73.318.)

Exhibit No.

(see Technical Statement)

SECTION V-2 - FM BROADCAST ENGINEERING DATA (Page 4)

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V (D). The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings and must bear a scale of distance in kilometers.

Exhibit No.  
2

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
3

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 316 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 259 sq. km) and population (latest census) within the predicted 1 mV/m contour.

Area 4816 sq. km. Population 175,429

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

d/n/a

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

☒ Linearly interpolated 30-second database ☐ 7.5 minute topographic map

(Source: NGDC-30 second)

☐ Other *(briefly summarize)*

## SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 8 to 16 km (meters)	Predicted Distances	
		To the 316 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
328°	112.1	24.5	40.9
0	114.4	24.7	41.3
45	109.2	24.2	40.5
90	112.2	24.5	41.0
135	102.3	23.5	39.5
180	84.5	21.5	36.5
225	86.3	21.6	36.6
270	93.7	22.5	38.0
315	98.9	23.1	38.9

-Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

## 20. Environmental Statement/See 47 C.F.R. Section 1.1301 et seq.

Would a Commission grant of this application come within Section 11807 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No


If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 11811.

Exhibit No.

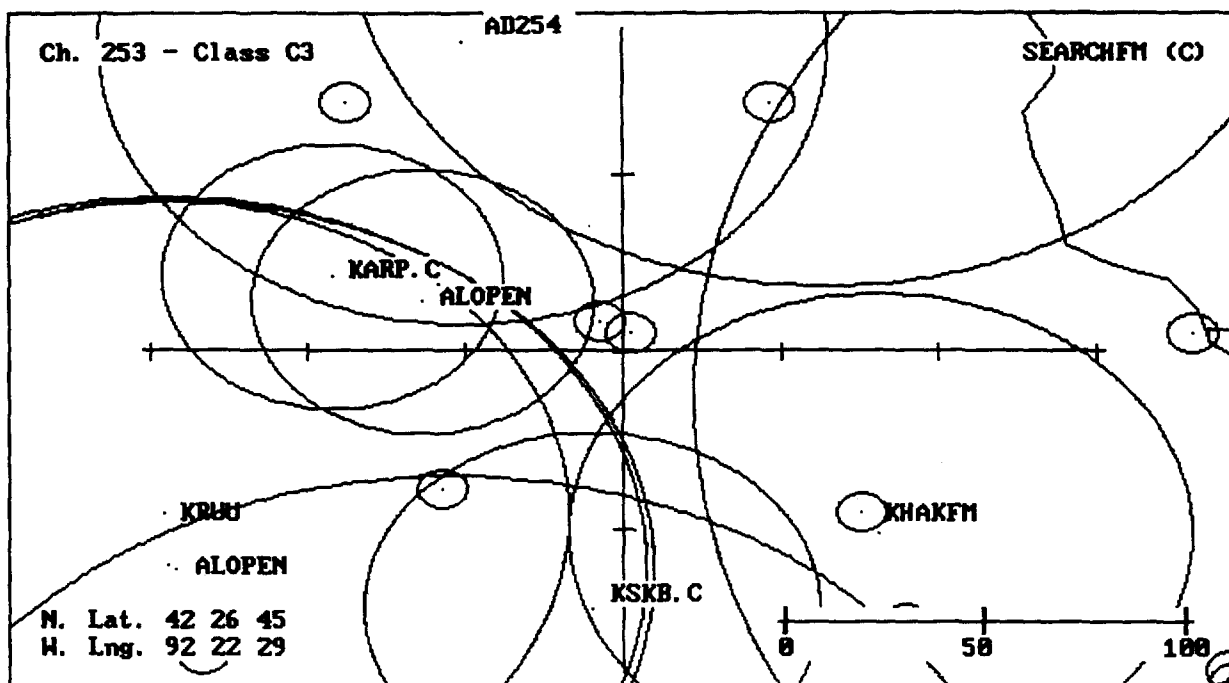
If No, explain briefly why not. Categorically excluded - See Technical Statement

## CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) George Nicholas	Relationship to Applicant (e.g., Consulting Engineer) Technical Consultant
Signature 	Address (Include ZIP Code) 3101 Falcon Ct NE Cedar Rapids, IA 52402
Date August 23, 1993	Telephone No. (Include Area Code) (319 ) 365-9431

GEORGE NICHOLAS BROADCAST CONSULTANT  
3101 FALCON CT NE CEDAR RAPIDS IA. 52402



Area to Locate  
New FM - Cedar Falls, IA

Data 07-28-93

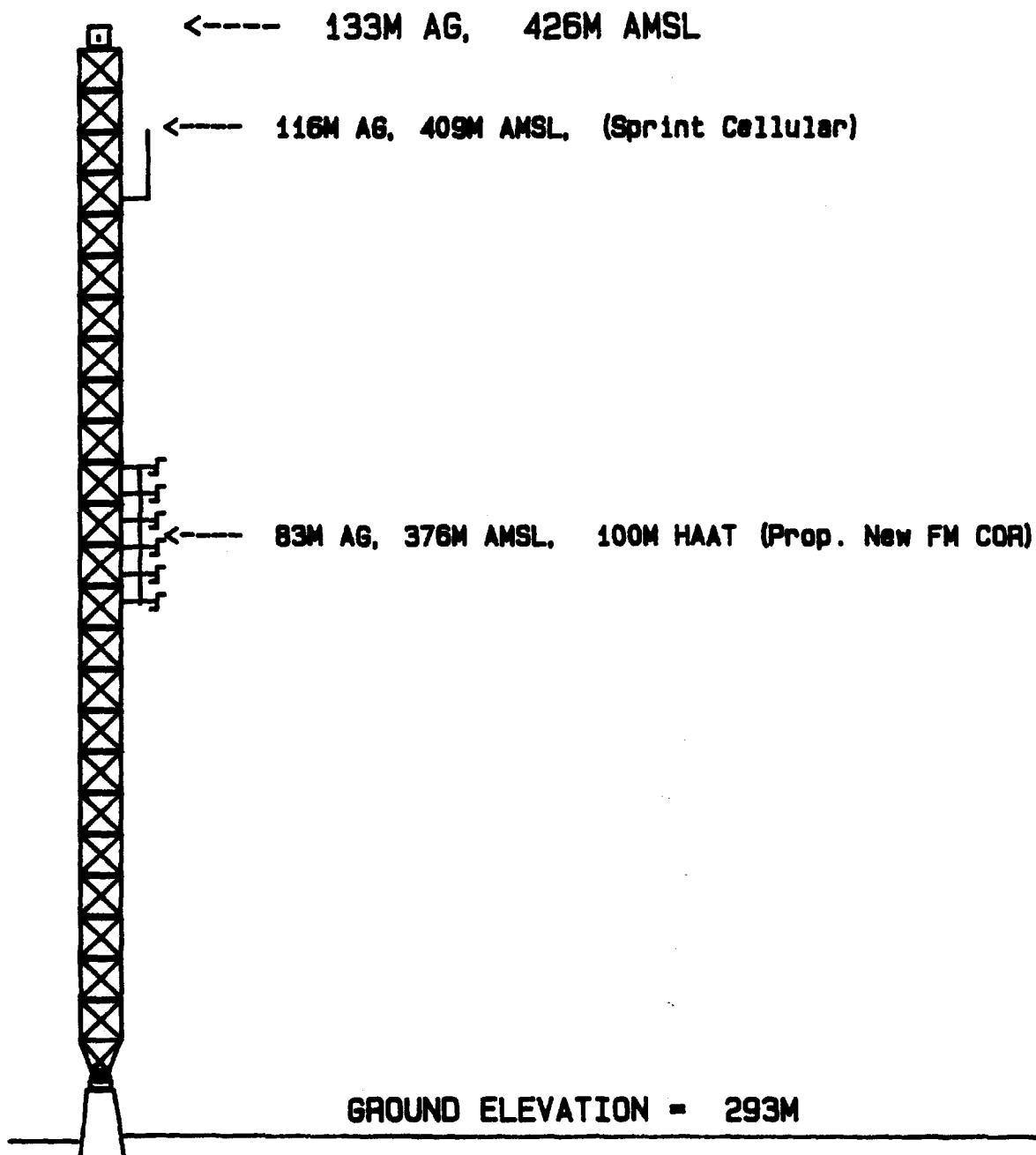
Current rules spacings  
CHANNEL 253 - 98.5 MHz

CALL TYPE	CH# LAT	CITY LNG	STATE PWR	BEAR' HT	D-KM D-Mi	R-KM R-Mi	MARGIN (KM)
KHAKFM	251C1	Cedar Rapids	IA	132.7	85.38	76.0	9.38
LI CN	41 55 28	91 36 55	100.000 kW	140M	53.1	47.2	
Quass Broadcasting Company					BLH790823AG		
ALOPEN	255A	Parkersburg	IA	287.9	51.41	42.0	9.41
AL N	42 35 17	92 58 12	0.000 kW	0M	32.0	26.1	
92-85							
ALOPEN	252C2	Boone	IA	237.5	129.97	117.0	12.97
AL N	41 49 00	93 42 00	0.000 kW	0M	80.8	72.7	
92-75							
KRUU.A	252C2	Boone	IA	238.6	131.29	117.0	14.29
AP CN	41 49 51	93 43 51	50.000 kW	150M	81.6	72.7	
Radio Ingstad of Iowa, Inc.					BPH921218IE		
AD254	254A	Osage	IA	338.0	105.00	89.0	16.00
AD	43 19 20	92 51 22	0.000 kW	0M	65.3	55.3	
Mad Hatter Broadcasting, Inc.							
>Alternate channel							
WXXQ	253B	Freeport	IL	93.7	229.51	211.0	18.51

GEORGE NICHOLAS BROADCAST CONSULTANT  
3101 FALCON CT NE CEDAR RAPIDS IA. 52402

CLASS C3

CALL TYPE	CH# LAT	CITY LNG	STATE PWR	BEAR' HT	D-KM D-Mi	R-KM R-Mi	MARGIN (KM)
LI CN	42 18 45	89 35 38	50.000 kW	122M	142.6	131.1	
	Freeport Radio Associates				BLH840321AC		
KRUU	252C3	Boone	IA	245.4	124.01	99.0	25.01
LI CN	41 58 49	93 44 23	12.500 kW	143M	77.1	61.5	
	Radio Ingstad of Iowa, Inc.				BLH920413KB		
KSKB.C	256C2	Brooklyn	IA	185.2	82.07	56.0	26.07
CP CN	41 42 36	92 27 54	50.000 kW	150M	51.0	34.8	
	Florida Public Radio, Inc.				BPH900130IG		
>From Channel 257A per D88-263							
KQYB	252C2	Spring Grove	MN	20.1	146.17	117.0	29.17
LI CN	43 40 53	91 45 28	33.000 kW	185M	90.8	72.7	
	Sun Communications, Inc.				BLH901121KD		
KARP.C	255A	Hampton	IA	288.0	75.03	42.0	33.03
CP CN	42 39 15	93 14 37	6.000 kW	98M	46.6	26.1	
	John Linder				BPH910219MK		
KMGO	254C1	Centerville	IA	192.9	188.36	144.0	44.36
LI CN	40 47 34	92 52 47	100.000 kW	137M	117.1	89.5	
	KMGO, Inc.				BLH6437		



## SKETCH OF TOWER

New FM - Cedar Falls, IA  
 FM Ch. 253C3 - 98.5 MHz.  
 E.R.P. = 25 KW (H&V)  
 Coordinates of Site:  
 N. Lat. 42-26-45  
 W. Lng. 92-22-29

---  
 -- Not to Scale --

## EXHIBIT #1

Proposed Tower Site  
 Thin Air Investments, Inc  
 Cedar Falls, IA  
 for  
 FCC Form 301 - New Station  
 August 23, 1993

George Nicholas  
 Broadcast Consultant  
 3101 Falcon Ct. NE  
 Cedar Rapids IA 52402  
 319 395-9188

# GEOLOGICAL SURVEY

NEW HAMPTON 40 MI.  
DENVER 12 MI.

PARKERSBURG 27 MI.  
CEDAR RAPIDS 34 MI.

7800 MI SE  
(WATERLOO NORTH)

92°22'30"  
42°30'

**EXHIBIT #2**

42°27'30"

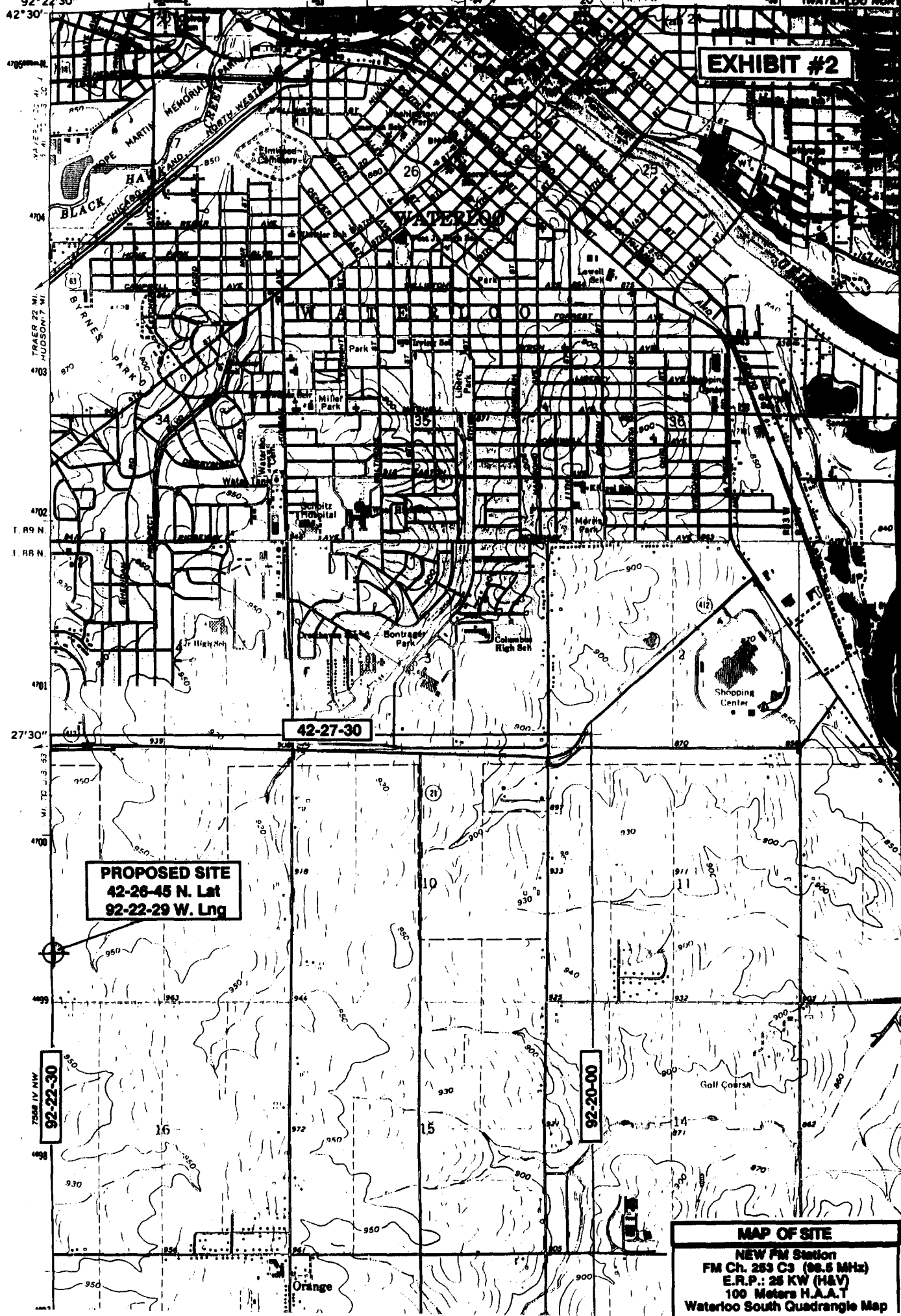
**42-27-30**

**PROPOSED SITE**  
42-26-45 N. Lat  
92-22-29 W. Lng

**92-22-30**

**92-20-00**

**MAP OF SITE**  
NEW FM Station  
FM Ch. 253 C3 (96.5 MHz)  
E.R.P.: 25 KW (H&V)  
100 Meters H.A.A.T  
Waterloo South Quadrangle Map





**EXHIBIT 3**

**0-T**

**60 DBU**

**PREDICTED COVERAGE CONTOURS**

**NEW-FM - Cedar Falls, IA - Channel 253 C3**

**Coordinates of Site:**

**N 42-28-45**

**W 92-22-29**

**Iowa 1:500,000 Base Map**

**August, 1993**

**315-T**

**70 dBu**

**45-T**

**Cedar Falls, IA**

**270-T**

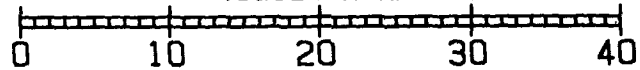
**90-T**

**225-T**

**180-T**

**135-T**

**Scale in km**



**George Nicholas, Broadcast Consultant**

**3101 Falcon Ct NE  
Cedar Rapids, IA 52402  
(319) 365-9431**